4494	Charks	ed by Chief	****
*********	Copy	NID to Field Offic	ce
	Aphen	ref feitur	
	Disapp	roval Lattor	***************************************
'A:			
835	Locatio	on inspected	*******
TA			
PA.L	St	ate of Fee Land	
LOG	S FILED		
)			
E-1	S	GR-N	Micro
M-L	onis	Others	
	TA	Cony I Append Distrip TA Bond r PA LOGS FILED	Approval letter Disapproval Letter A: S-35 Location Inspected TA Bond released State of Fee Land LOGS FILED

The same of the sa

UTAH SOUTHERN OIL COMPANY

Log of Balsley Well Number 1 Salt Valley, Grand County, Utah

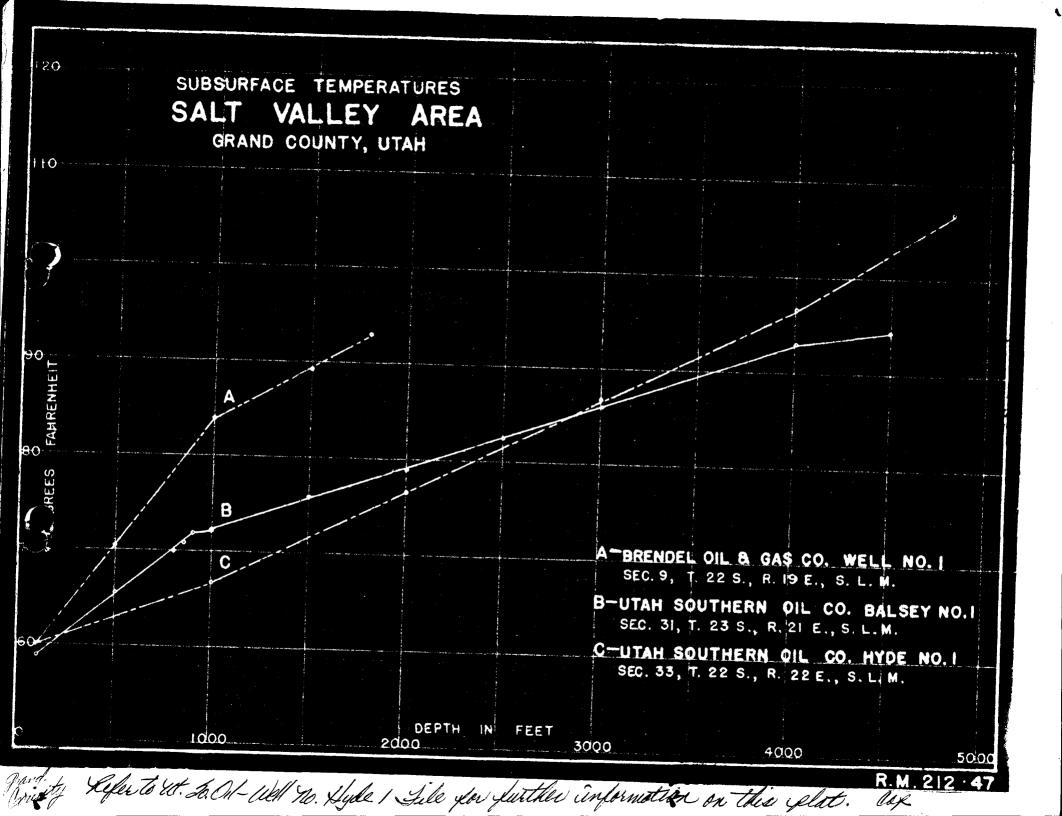
Location: NE_4^2 , Sec. 33, Twp. 23, Range 21 E.

December 18, 1930. Spudded:

12	2 020	Sand and			
20	50	Shale and	Gypsum.		
50	95	Gypsum.			
95	120	Black Sha	le.		
120	200	Blue Shal	e and Gypsum.		
200	225	Gray Shal	e and Gypsum.	•	
225	370	Blue Shal	e.		
370	380	Black Sha	le.		
380	420	Blue Shal	e with streaks	of Black Shale	e and
_		Anhydrite			
420	430	Gray Shal			
430	480	Blue Shal	e and Cypsum.		
480	520			Very Sticky.	
520	720		e and Gypsum.		
720	760	Muddy ^B lu	e Shale.		
760	840	Blue Shal	e.		
840	850		le with Water.		
850	865	Shale.			
865	883		Anhydrite.	•	
883	884	Salt.			
884	907	Salt and			
907	920		e and Salt.		
920	946	Coring.	Salt.	•	
946	112/4	Salt.			
1124	1193			of black shale	
1193	1262		re from 1257 to	o 1262 showed 2	2% potash.
1262	1580	Salt.		-	
	1584		Anhydrite and	Shale.	
1584	1598	Anhydrite			
1598	1609	Anhydrite			. *
1609	1620		and shale.	•	
1620	1626		d measured hole	e)	
1626	1654		Anhydrite.		
	1680	Black Sha		. · · · · · · · · · · · · · · · · · · ·	
1680		Black Sha			
	1720		y Shale and Lir		
1720	1723			y Limy shale wi	rtn a rew
1700	1725		osits of salt.	W	
1723	1735 1748		y Limy Shale.		
1735		Black Sha			
1748	1754	Gray Sand			• **
1754	1758	Black Sha			
1758	1763		y Limy Shale.		
1763	1768	Gray Sand			
1768	1801	Soft Gray	ouste.		

```
1801
        1806
                      Run core bbl. Sandy shale and shale.
1806
        1821
                      Gray Sandy Shale.
1821
        1829
                      Gray Shale and salt.
1829
        1872
                      Salt.
1872
        1880
                      Salt. Run core bbl.
1880
        1945
                      Salt. Run core bbl. from 1880 to 1885.
1945
        2152
                      Salt.
2152
        2155
                      Run core bbl. - salt.
2155
        2408
                      Salt.
2408
        2412
                      Anhydrite.
2410
        2435
                      Black Shale.
2435
        2695
                      Salt.
2695
        2703
                      Black Shale.
2703
        2968
                      Salt.
2968
        2984
                     Anhydrite and Hard gray shale.
2984
        3020
                     Salt.
3020
        3025
                     Anhydrite and shale.
3025
       3050
                     Streaks of salt and shale.
3050
        3075
                     Streaks of salt, shale, and anhydrite.
3075
        3100
                     Salt.
3100
       3129
                     Salt and Shale.
3129
       3321
                     Salt.
3321
       3329
                     Anhydrite and Shale and salt.
3329
       3349
                     Salt.
3349
       3358
                     Gray shale.
3358
       3387
                     Black and Gray shale.
3387
        3390
                     Black and Gray shale. With oil.
3390
       3399
                     Conglomerate and black shale. Run core bbl.
3399
       3410
                     Conglomerate and Black Shale.
3410
       3415
                     Black sandy lime and shale. Oil and gas showing.
3415
       3432
                     Black sandy lime and shale.
3432
       3436
                     Black sandy lime and shale.
3436
       3445
                     Sandy Lime. Hard.
3445
       3490
                     Lime and Calcite.
3490
       3500
                     Lime and Calcite. Also showed a little salt.
                     cavings.
3500
       3818
                     Salt.
3818
       3930
                     Shale and Anhydrite.
       3937
3952
3930
                     Salt.
3937
                     Shale and Anhydrite.
3952
4563
       4563
                     Salt.
                     Gray Shale.
       4590
4590
       4672
                     Salt and Shale.
4672
       4703
                     Black Shale.
4703
       4705
                     Salt. Run core bbl. Formation is lying flat. No dip.
4705
       4735
                     Salt and Shale.
4735
4785
       4785
                     Salt.
       4916
                     Salt with a little shale.
4916
       4930
                     Gray and Black Shale.
4930
       4950
                     Shale with a little salt.
4950
       4960
                     Gray Shale.
4960
       4972
                     Talc.
4972
       4996
                     Black Shale.
4996
       5065
                     Salt and Shale.
       5320
5065
                     Salt.
       5369
5320
                    Salt and Shale.
5369
       5380
                    Gray Sandy Salt.
```

5380	5400	Anhydrite.
5400		· · · · · · · · · · · · · · · · · · ·
	5405	Black Shale and Anhydrite.
5405	5408	Gray Shale and Anhydrite.
5408	5427	Shale and Anhydrite.
5427	5428	Run core bbl. Anhydrite.
5428	5450	Shale and Anhydrite.
5450	5485	Black Shale.
5485	5489	Black limey Shale.
5489	5497	
		Lime of some kind. Hard.
5497	5503	Lime.
5503	5507	Lime with small showing of salt.
5507	5510	Lime.
5510	5520	Lime.
5520	5525	Lime or Anhydrite.
5525	5530	Lime. Very hard. Black.
5530	5534	Black shale.
5534	5538	Lime. Very hard. Black.
	5542	Lime. Black.
	5547	Black Shale.
5547	5551	Black Lime.
5551	5567	Black Lime.
フフフエ		
5567	5604	Gray Sandy Shale.
5604	5625	Mixed black and gray sandy shale.
5625	5630	Light Gray Lime and Shale.
5630	5636	Dark Gray Lime and Shale.
5636	5646	Gray Limey Shale.
5646	5654	Black Limey Shale.
5654	5659	Gray Limey Shale.
5659	5670	Salt with Gray Shale.
5670	5794	Salt.
5794	5841	Salt with little shale.
5841	6015	Salt.
6015	6023	Salt with a little black shale.
_		•
6023	6058	Salt, Black muck and sulphur.



Utah Southern Cil Co. Well No. 1 (Balsey), C HWHW Sec. 32. T. 238., R. 21 E. (575 ft. from N. line and 860 ft. from W. line of Sec.) Salt Valley Field, Grand County, Utah. State Land.

Drilling commenced December 18, 1930, finished October 27, 1932.

From	To	Fernation
1	12	Cellar
12	20	Sand and gypoon
20	50	Shale and gypeen
50 95 120	95	Gyponn. Set 159" casing at 761. Committed.
322	120	Rinek shale
200	200	Elmo shale and gypoun
225	225 370	Gray shale and groom
370	420	Rive shale
370 420	1,30	Blue shale with streeks of black similesand ambydrite Gray Shale
130 180	1190 1130	Blue shale and gryonn
pgo	520	Elnes ale and gypeen. Very stacky
520	720	Blue shale and gypoun
720 760 840 850 865	760	Maddy blue shale
760	gho	Rine shale - envira seme
60¢0	850	Minut shale and animarite with unter
950	865	Shale - hele eaving badly
905	883	Hard shale and shall at 8691. 10" easing set
		at our and 250' heavy and damed in hele
		and the look behind theing. Inter tensished
863	881.	with 50 make of conent.
881	907	Selá
907	920	Salt and shale Grey shale and salt
720	1121	Salt. Gering
1124		Sals with small amount of black shale
1199	1193 1580	Salt
1580 1584 1608	158i	Suit, assydrite and shale
1581	1608	Ashphrite
1608	1650 1684	Shale and anhydride
1650	1684	Mask shale
1684	1720	Gray sandy stalls and line
1720	1735 1748 1754 1754	Corr study liney shale
1735 1748	1740	Mask shale
1754	7.768	Mark shale
1758	1763	
1763	1768	Grey sandy shale
1768	1801	Selfs gater shale
1801	1806	Samey shale. Gare
1806	1821	Gray sandy shale
1821	1829	Cour shale and salt
1829	21 108	Sells
21 108	2412	Ankydrite

From	<u>To</u>	Permetalon
2412	21.35	Wheel as a
2135 2695	2695	Mack Shele
2695	2703	Selt
2703	2968	Black Shale
2968	2984	Balt
2981	3020	Ambiguite and hard grey shale
3020		oets .
3025	3025 2027	Anhydrite and shale
3075	3075	Streaks of salt, shale and amydrite
3300	3100	CHT.
31.29	3129	Salt and shale
3321	3321	Sals
1120	3329	Sult and shale
1110	3349	Salt
11168	3358	Comy shale
3329 3349 3358 3367	3387	Black and grey shale. Caving
3390	3390	ALMON SELL STEV SELLO, with and
1700	3 39 9	Constitution and the last the
1430	3410	
94.20	2132	Mark White Item and shale. My A see manner
	31,06	THE REAL PROPERTY AND STREET
3 12	3445	
	3500	Man and said to. Bit sastan and as side.
383.0	3818	during 2
3307 3410 3410 3510 3510 3510 3510 3510 3510 3510 35	3930	Shale and anhydrite
3930 3027	3937	3019
2721	3952	Sinle and anhydrine
	4563	
	1590	Crty Shale
	14596	Sa 23
	h672	Salt and shale
	4703	Mask shale
	4705	Sel to Took core - Securities is lying that
4705	4735	Salt and shale
4735	4785	Salt
4785	1936	Salt with a little shale
1076	4930 4930	day and black shale
1030	1090	Shale with a little salt
1050	h960	Grey shale
1960	1972	Tale
POLS	4996	Black stale
4770 2007	5065	Salt and shale
7007 5000	5320	Sali
2380	5367	Salt and shale
5065 5380 5380 5367	5380	Gray santy salt
5)-00	200	Ambydrite
51.00	51.50	Shale and ambydrite
5450	51,89	Black limey shale
5489	550 3	Idme - hard
5503	5 507	lime with small showing of salt
5507	5530	Idne - very hard and black
55 3 0	5534	Black shale

- 2

From	To	Formation
5534	5542	lime - hard and black
5542	5 51.7	Black shale
5547	5567	Black line
5567	560h	Gray sandy shale
560h	5625	Mixed black and gray sandy shale
5625	5630	Light gray lime and shale
5630	56 36	Dark gray line and shale
5636	56b6	Oray liney shale
5646	56521	Black liney shale
5654	56 59	
5659	5670	Cray liney shale
5670	5 79 4	Salt with gray shale
5774	2817	3a1\$
5841		Salt with a little shale
58 9 0	5 89 0	Salt. Caving hadly - had to coment
5940	5940	Salt. Casing. Comented again at 5910
	6023	Salt with a little black shale
6023	6058	Salt - black muck or shale
6058	6059	Salt
6059	6065	Salt and black maddy shale or bentomite
6065	6091	Black maddy shale and salt. Formation has
6091	612 0	Squeezing tendency. Salt with some black shale

Well plugged and abandoned - August 1935

300° of 10" casing pulled 2285° of 84" casing recovered.

From:

Pat O'Dell <Pat_ell@nps.gov>

To:

NRDOMAIN. NROGM (BREEGER)

Date:

7/30/98 2:04pm

Subject:

Abandoned Oil/Gas Wells in Arches Nat'l Park

Dear Mr. Krueger:

I pulled your name from the Utah Division of Oil, Gas, and Mining web site. I am hoping you can lead me to the right source of information. I want to get copies of plugging records for two wells that were drilled on state tracts inside the present day boundary of Arches National Park. The information is needed to determine if any potential liabilities remain with the wells. They are on lands that are part of the ongoing federal-state land exchanges. Our site visits did not produce much concern and now we are just trying to close the paper loop.

The 2 wells are located in Sec. 2, 23S, 20E and Sec. 32, 23S, 21E.

Your assistance would be greatly appreciated if just a reply telling me who I need to contact. Thanks in advance.

Pat O'Dell Petroleum Engineer National Park Service Geological Resource Division Lakewood, CO (303) 969-2013

CC:

Jim Sharum <Jim Sharum@nps.gov>

From:

Bob Krueger

To:

MNET.MAIL("Pat O'Dell@nps.gov")

Date:

8/3/98 3:33pm

Subject:

Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

I have located the files for the two wells you referred to. They are very old wells, circa 1930 and 1948, predating any active regulatory program as far as I can tell. Both files indicate some casing was left in the holes and that the wells were P&A'ed, but did not indicate specifically the procedures followed. No flowing oil/water/or gas was reported on the drilling reports for either well. API #'s are:

1) 43-019-11405, Utah Southern Oil Co., Balsey 1, 1930, Status P&A

2) 43-019-11566, Pure (Union) Oil Co., State No. 1, 1948,

I would say these wells pose little or no "liability" to the NPS. You may want to look at them to be sure.

CC:

MNET.MAIL("Jim_Sharum@nps.gov"),

From: Pat O'Dell <Pat_O:Fell@nps.gov>

To: Bob Krueger <nrog krueger@state.ut.us>

Date: 8/14/98 1:55pm

Subject: Re: Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

Mr. Krueger,

Thank you for the timely information on the two wells in Arches. I don't have a need for copies of the well files at this time.

Once again, thanks for your help.

Pat O'Dell

Reply Separator

Subject: Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

Author: Bob Krueger <nrogm.bkrueger@state.ut.us>

Date: 8/3/98 3:33 PM

** High Priority **

I have located the files for the two wells you referred to. They are very old wells, circa 1930 and 1948, predating any active regulatory program as far as I can tell. Both files indicate some casing was left in the holes and that the wells were P&A'ed, but did not indicate specifically the procedures followed. No flowing oil/water/or gas was reported on the drilling reports for either well. API #'s are:

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Received: from STATE-DOMAIN-Message_Server by state.ut.us with Novell GroupWise; Mon, 03 Aug 1998 15:34:01 -0600

Message-Id: <s5c5d869.080@state.ut.us>

X-Mailer: Novell GroupWise 4.1

Date: Mon, 03 Aug 1998 15:33:44 -0600

From: Bob Krueger <nrogm.bkrueger@state.ut.us>

To: Pat_O'Dell@nps.gov Cc: Jim_Sharum@nps.gov

Subject: Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

Mime-Version: 1.0

Content-Type: text/plain
Content-Disposition: inline

CC: Jim Sharum < Jim Sharum@nps.gov>